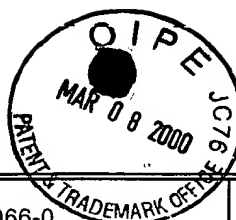


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| Form PTO 1449 (Modified) | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY DOCKET NO. 0010-1066-0 | | SERIAL NO. 09/459,573 | |
| LIST OF REFERENCES CITED BY APPLICANT | | | | APPLICANT Vitaliy A. LIVSHITS, et al. | | | |
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| U.S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROPRIATE |
| DJS | AA | 5,175,107 | 12/29/92 | DEBABOV, et al. | | | |
| DJS | AB | 5,538,873 | 07/23/96 | DEBABOV, et al. | | | |
| DJS | AC | 5,631,157 | 05/20/97 | DEBABOV, et al. | | | |
| DJS | AD | 5,658,766 | 08/19/97 | LIVSHITS, et al. | | | |
| DJS | AE | 5,705,371 | 01/06/98 | DEBABOV, et al. | | | |
| DJS | AF | 5,976,843 | 11/02/99 | DEBABOV, et al. | | | |
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Paper No. 3

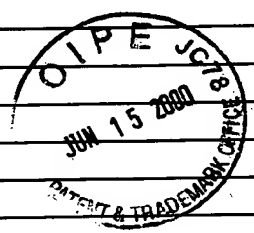
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| Form PTO 1449 (Modified) | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY DOCKET NO. 0010-1066-0 | | SERIAL NO. 09/459,573 | |
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| OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.) | | | | | | | |
| DJS | AW | F.R. BLATTNER, et al., Journal = Science 277, pages 1-8, Acc. AE000344, Definition = Escherichia Coli K-12 MG1655 section 234 of 400 of the complete genome, "THE COMPLETE GENOME SEQUENCE OF ESCHERICHIA COLI K-12," January 16, 1997 | | | | | |
| DJS | AX | F.R. BLATTNER, et al., Journal = Science 277, pages 1-7, Acc. AE000375, Definition = Escherichia Coli K-12 MG1655 section 265 of 400 of the complete genome, "THE COMPLETE GENOME SEQUENCE OF ESCHERICHIA COLI K-12," January 16, 1997 | | | | | |
| DJS | AY | F.R. BLATTNER, et al., Journal = Science 277, pages 1-9, Acc. AE000140, Definition = Escherichia Coli K-12 MG1655 section 30 of 400 of the complete genome, "THE COMPLETE GENOME SEQUENCE OF ESCHERICHIA COLI K-12," January 16, 1997 | | | | | |
| DJS | AZ | F.R. BLATTNER, et al., Journal = Science 277, pages 1-10, Acc. AE000274, Definition = Escherichia Coli K-12 MG1655 section 164 of 400 of the complete genome, "THE COMPLETE GENOME SEQUENCE OF ESCHERICHIA COLI K-12," January 16, 1997 | | | | | |
| Examiner <i>RJS</i> | | | | | Date Considered 12/05/01 | | |
| *Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | | | | | | |

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| LIST OF REFERENCES CITED BY APPLICANT | | APPLICANT Vitaliy Arkadievich LIVSHITS, et al. | |
| | | FILING DATE December 13, 1999 | GROUP 1641 |

U.S. PATENT DOCUMENTS

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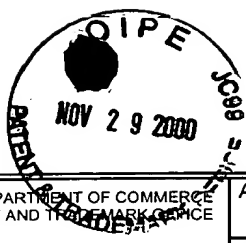
FOREIGN PATENT DOCUMENTS

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| DJS | AO 0 994 190 | 04/19/2000 | EUROPE | | |
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

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|-----|----|---|
| DJS | AW | N.P. ZAKATAEVA, et al., Faseb Journal, vol. 11, no. 9, page A935, "CHARACTERIZATION OF A PLEIOTROPIC MUTATION THAT CONFERS UPON ESCHERICHIA COLI CELLS RESISTANCE TO HIGH CONCENTRATIONS OF HOMOSERINE AND THREONINE", 1997 |
| DJS | AX | M. DUNCAN, et al., Database EMBL/Swissprot (Online) ID: Yahn-Ecoli, "THE COMPLETE GENOME SEQUENCE OF ESCHERICHIA COLI K-12.", November 01, 1997 |
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| Examiner <i>RS</i> | Date Considered 12/05/01 |
| <small>*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small> | |



Paper No. 4

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| Form PTO 1449 (Modified) | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY DOCKET NO. 0010-1066-0 | SERIAL NO. 09/458,573 |
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| OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.) | | |
|---|----|---|
| DJS | AW | T. ITOH, et al., Database EMBL/Swissprot (Online) ID: YEAS_ECOLI, "A 460-kb DNA SEQUENCE OF THE ESCHERICHIA COLI K-12 GENOME CORRESPONDING TO THE 40.1-50.0 MIN REGION ON THE LINKAGE MAP," July 15, 1998 |
| DJS | AX | H. AIBA, et al., Database EMBL/Swissprot (Online) ID: YFIK_ECOLI, "NON-RIBOSOMAL PROTEINS AFFECTING THE ASSEMBLY OF RIBOSOMES IN ESCHERICHIA COLI," October 1, 1994 |
| DJS | AY | P.R. ALEFOUNDER, et al., Database EMBL/Swissprot (Online) ID: YGGA_ECOLI, "IDENTIFICATION, MOLECULAR CLONING AND SEQUENCE ANALYSIS OF A GENE CLUSTER ENCODING THE CLASS II FRUCTOSE 1,6-BISPHOSPHATE ALDOLASE, 3-PHOSPHOGLYCERATE KINASE AND A PUTATIVE SECOND GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE OF ESCHERICHIA COLI," October 1, 1989 |
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| Examiner <i>RJS</i> | Date Considered 12/05/01 |
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